## CLAIM AMENDMENTS:

## Pending Claims

Claim 1 (Currently Amended): A rotor rotational position-adjusting system for a vertical takeoff and landing aircraft comprising:

a plurality of detectors generating rotor signals indicative of rotational positions of each of a plurality of rotors of the aircraft, said plurality of rotors lifting the aircraft; and

a controller coupled to said plurality of detectors, said controller adjusting a rotational speed of at least one of said plurality of rotors in response to said rotor signals.

Claim 2 (Original): A system as in claim 1 wherein said plurality of detectors comprises:

a first detector generating a first rotor signal indicative of a first position of a first rotor; and

a second detector generating a second rotor signal indicative of a second position of a second rotor;

said controller adjusting rotational speed of said first rotor relative to said second rotor.

Claim 3 (Currently Amended): A vertical takeoff and landing aircraft comprising:

an aircraft fuselage;

a plurality of hubs mechanically coupled to said fuselage and rotated by at least one engine;

a plurality of rotors mechanically coupled to said plurality of hubs and propelling and lifting said aircraft fuselage;

a plurality of detectors generating rotor signals indicative of rotational positions of said plurality of rotors; and

a controller coupled to <u>said plurality of detectors</u> and adjusting rotational speed of said plurality of rotors in response to said rotor signals.

Claim 4 (Original): A vertical takeoff and landing aircraft as in claim 3 wherein said plurality of detectors are coupled to said aircraft fuselage and are directed towards said plurality of rotors.

Claim 5 (Original): A vertical takeoff and landing aircraft as in claim 3 wherein said plurality of detectors are coupled to said plurality of rotors and are directed towards said aircraft fuselage.

Claim 6 (Original): A vertical takeoff and landing aircraft as in claim 3 wherein said plurality of detectors detect infrared energy of said plurality of rotors.

Claim 7 (Original): A vertical takeoff and landing aircraft as in claim 3 wherein said plurality of detectors detect ultraviolet energy of said plurality of rotors.

Claim 8 (Original): A vertical takeoff and landing aircraft as in claim 3 wherein said plurality of detectors detect infrared energy of at least a portion of said aircraft fuselage.

Claim 9 (Original): A vertical takeoff and landing aircraft as in claim 3 wherein said plurality of detectors detect ultraviolet energy of at least a portion of said aircraft fuselage.

Claim 10 (Original): A vertical takeoff and landing aircraft as in claim 3 further comprising a plurality of emitters, said plurality of detectors generating said rotor signals in response to emitted energy from said plurality of emitters.

Claim 11 (Original): A vertical takeoff and landing aircraft as in claim 10 wherein said plurality of emitters are selected from at least two of infrared emitters and ultraviolet emitters.

Claim 12 (Previously Presented): A vertical takeoff and landing aircraft as in claim 10 wherein said plurality of detectors comprises:

a first detector generating a first rotational position signal indicative of a first position of a first rotor in response to emitted energy from a first emitter of said plurality of emitters; and

a second detector generating a second rotational position signal indicative of a second position of a second rotor in response to emitted energy from a second emitter of said plurality of emitters; said controller coupled to said first detector and said second detector and adjusting rotational speed of said plurality of rotors in response to said first rotational position signal and said second rotational position signal.

Claim 13 (Original): A vertical takeoff and landing aircraft as in claim 3 wherein said plurality of detectors comprises:

a first detector generating a first rotational position signal indicative of a first position of a first rotor; and

a second detector generating a second rotational position signal indicative of a second position of a second rotor;

said controller coupled to said first detector and said second detector and adjusting rotational speed of said plurality of rotors in response to said first rotational position signal and said second rotational position signal.

Claim 14 (Withdrawn): A vertical takeoff and landing aircraft as in claim 3 further comprising a plurality of emitters, said plurality of detectors generating said rotor signals in response to reflected energy generated from said plurality of emitters.

Claim 15 (Withdrawn): A vertical takeoff and landing aircraft as in claim 14 further comprising at least one reflective device reflecting energy emitted from said plurality of emitters towards said plurality of detectors.

Claim 16 (Withdrawn): A vertical takeoff and landing aircraft as in claim 14 wherein said plurality of emitters and said plurality of detectors are coupled to said aircraft fuselage.

Claim 17 (Withdrawn): A vertical takeoff and landing aircraft as in claim 14 wherein said plurality of emitters and said plurality of detectors are coupled to said plurality of rotors.

Claim 18 (Original): A vertical takeoff and landing aircraft as in claim 3 wherein said controller in adjusting rotational speed of said plurality of rotors adjusts gas flow to said plurality of rotors.

Claim 19 (Original): A vertical takeoff and landing aircraft as in claim 3 further comprising at least one gas control valve, said controller adjusting rotational speed of said plurality of rotors via said at least one gas control valve.

Claim 20 (Original): A vertical takeoff and landing aircraft as in claim 3 further comprising at least one brake, said controller adjusting rotational speed of said plurality of rotors via said at least one brake.

Claim 21 (Original): A vertical takeoff and landing aircraft as in claim 3 further comprising at least one drag device, said controller adjusting rotational speed of said plurality of rotors via said at least one drag device.

Claim 22 (Original): A vertical takeoff and landing aircraft as in claim 21 wherein said at least one drag device is selected from at least one of a flap, a slat, a flaperon, an aileron, a spoiler, a drag plate, and a split aileron.

Claim 23 (Original): A vertical takeoff and landing aircraft as in claim 3 wherein said controller switches said plurality of tandem rotor/wings between a vertical lift mode and a fixed wing mode.

Claim 24 (Original): A vertical takeoff and landing aircraft as in claim 3 further comprising at least one transitional lift wing mechanically coupled to said fuselage and enabling lift of said aircraft fuselage during off-loading lift of said plurality of rotors.

Claim 25 (Original): A vertical takeoff and landing aircraft as in claim 3 wherein said plurality of rotors are

tandem rotor/wings.

Claim 26 (Original): A vertical takeoff and landing aircraft as in claim 3 further comprising a plurality of emitters, said plurality of detectors generating said plurality of rotor signals in response to passage of said plurality of rotors through emissive energy generated from said plurality of emitters.

Claims 27-36 (Canceled).

Claim 37 (Previously Presented): A vertical takeoff and landing aircraft comprising:

an aircraft fuselage;

- a plurality of hubs mechanically coupled to said fuselage and rotated by at least one engine;
- a plurality of tandem rotor/wings mechanically coupled to said plurality of hubs and propelling and lifting said aircraft fuselage;
  - a plurality of emitters;
- a plurality of detectors generating tandem rotor/wing signals indicative of rotational positions of said plurality of rotors in response to emissive energy generated by said plurality of emitters; and
- a controller coupled to and adjusting rotational speed of said plurality of tandem rotor/wings in response to a comparison of said tandem rotor/wing signals.

Claim 38 (Original): A vertical takeoff and landing aircraft as in claim 37 comprising:

a first detector vertically in-line with a first emitter, corresponding with a first tandem rotor/wing, and generating a first tandem rotor/wing signal; and

a second detector vertically in-line with a second emitter, corresponding with a second tandem rotor/wing, and generating a second tandem rotor/wing signal;

said controller adjusting rotational speed of said first tandem rotor/wing relative to said second tandem rotor/wing in response to a comparison between said first tandem rotor/wing signal and said second tandem rotor/wing signal.

Claims 39 and 40 (Canceled).